

Ser. No. 10/521,308
Response dated July 29, 2008
Reply to Office Action dated May 16, 2008

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Amendments to the claims

Please cancel claims 10 and 20 without prejudice.

Please add new claims 22-23.

Please amend claims 1, 4-5, 9, 12, 15-16 and 19 as follows:

1. (currently amended) A method of providing multiple versions of a digital recording comprising the steps of:

using a first stream identification, encoding a base layer comprising base data representing a first version of a digital recording; and

using a second stream identification, encoding an enhancement layer comprising enhancement data which can be combined with said base data to represent a second version of the digital recording.

wherein said base layer and said enhancement layer are stored on a single side of a storage medium.

2. (original) The method of claim 1, wherein said first stream identification is 0xE0.

3. (original) The method of claim 1, wherein said second stream identification is at least one value selected from the group consisting of 0xBF, 0xFA, 0xFB, 0xFC, 0xFD and 0xFE.

4. (currently amended) The method of claim 1, further comprising at least one of the step of multiplexing said base layer and said enhancement layer and the step of interleaving said base layer and said enhancement layer.

5. (currently amended) The method of claim 1, further comprising ~~the step of interleaving said base layer and said enhancement layer~~ using a remaining side, other than the single side, of said storage medium for identification and labeling of said storage medium.

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6. (original) The method of claim 1, further comprising the step of storing said base layer and said enhancement layer on different physical layers of a storage medium.

7. (original) The method of claim 1, wherein said encoding said base layer step further comprises the step of coding said base data in a format substantially similar to MPEG-2.

8. (original) The method of claim 1, wherein said encoding said enhancement layer step further comprises the step of coding said enhancement data in a format substantially similar to at least one format selected from the group consisting of H.264.

9. (currently amended) The method of claim 1, wherein said first version of the digital recording comprises standard definition program content and said second version of the digital recording comprises high definition program content.

10. (cancelled)

11. (original) The method of claim 1, wherein said storage medium is a digital video disc (DVD).

12. (currently amended) A DVD medium comprising:

 a base layer having a first stream identification and comprising base data representing a first version of a digital recording; and

 an enhancement layer having a second stream identification and comprising enhancement data which can be combined with said base data to represent a second version of said digital recording,

wherein said base layer and said enhancement layer are stored on a single side of the DVD medium.

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13. (original) The DVD medium of claim 12, wherein said first stream identification is 0xE0.

14. (original) The DVD medium of claim 12, wherein said second stream identification is at least one value selected from the group consisting of 0xBF, 0xFA, 0xFB, 0xFC, 0xFD and 0xFE.

15. (currently amended) The DVD medium of claim 12, wherein at least one of said base data and said enhancement data are multiplexed and said base data and said enhancement data are interleaved.

16. (currently amended) The DVD medium of claim 12, wherein ~~said base data and said enhancement data are interleaved~~ a remaining side, other than the single side, of the DVD medium is used for identification and labeling of the DVD medium.

17. (original) The DVD medium of claim 12, wherein said base data is stored in a format substantially similar to MPEG-2.

18. (original) The DVD medium of claim 12, wherein said enhancement data is provided in a format substantially similar to H.264.

19. (currently amended) The DVD medium of claim 12, wherein said first version of the digital recording comprises standard definition program content and said second version of said digital recording comprises high definition program content.

20. (cancelled)

21. (original) The DVD medium of claim 12, wherein the DVD medium is a multi-layer DVD, and said base layer and said enhancement layer are stored on different physical layers of said multi-layer DVD.

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22. (new) The method of claim 1, wherein said base layer is formed by applying a two step transformation process to an input high definition sequence, the two step transformation process using a post-multiplication step by a first downsampling matrix for horizontal downsampling and a pre-multiplication step by a second downsampling matrix for vertical downsampling, and said enhancement layer is formed by applying a two step interpolation process to reconstructed base pixels, the two step interpolation process using a pre-multiplication step by a first interpolation matrix for vertical interpolation and a post-multiplication step by a second interpolation matrix for vertical interpolation.

23. (new) The DVD medium of claim 12, wherein said base layer is formed by applying a two step transformation process to an input high definition sequence, the two step transformation process using a post-multiplication step by a first downsampling matrix for horizontal downsampling and a pre-multiplication step by a second downsampling matrix for vertical downsampling, and said enhancement layer is formed by applying a two step interpolation process to reconstructed base pixels, the two step interpolation process using a pre-multiplication step by a first interpolation matrix for vertical interpolation and a post-multiplication step by a second interpolation matrix for vertical interpolation.